

WHAT IS CLAIMED IS:

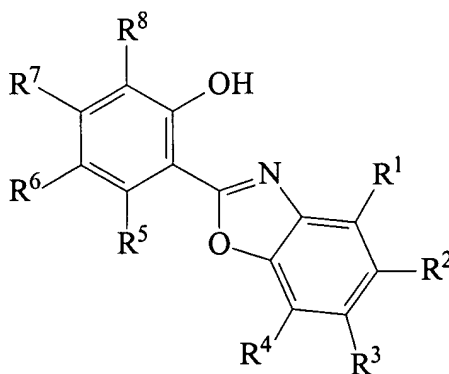
1. A compound of the formula X-Y-Z; wherein

Y is an aromatic cyclic structure substituted at least once with OH and optionally substituted with SH, H, C₁₋₂₂ alkyl, C₂₋₂₂ alkene, C₂₋₂₂ alkyne, primary, secondary or tertiary amine, amino, nitro, nitroso, halogen; and

at least one of X and Z are a carbon-containing ring structure that may also contain at least one of oxygen, nitrogen and sulfur.

2. The compound of claim 1, wherein X and Z are independently selected from H, nitro, nitroso, cyano, halogen, C₁₋₂₂ alkyl, C₁₋₂₂ alkoxy, -C(O)R⁹ wherein R⁹ is C₁₋₈ alkyl, -O-C-O-R⁹ wherein R⁹ is C₁₋₈ alkyl, -COOR¹⁰ wherein R¹⁰ is H or C₁₋₈ alkyl, -C(O)NR¹⁰ wherein R¹⁰ is H or C₁₋₈ alkyl, a primary, secondary or tertiary amine, substituted or unsubstituted carbocyclic ring, a substituted or unsubstituted aryl ring, a substituted or unsubstituted heteroaryl ring, a substituted or unsubstituted benzannulated carbocyclic ring, a substituted or unsubstituted benzannulated heterocyclic ring, a substituted or unsubstituted arylannulated carbocyclic ring or a substituted or unsubstituted arylannulated heterocyclic ring.

3. The compound of claim 1, wherein the compound is a 2-hydroxyphenyl(benzoxazol-2-yl) of the formula:

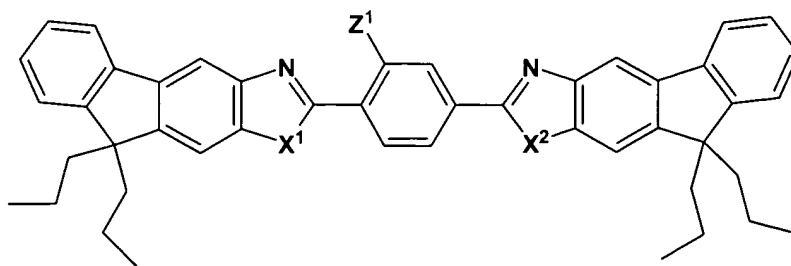


wherein R^1 , R^2 , R^3 and R^4 are independently selected from H, alkyl (C_1 - C_8), alkoxy (C_1 - C_8), acyl ($-C(O)R$; R = alkyl C_1 - C_8), acetoxy ($-OC(O)R$; R = alkyl C_1 - C_8), carboxylic acid and esters ($-CO_2R$ = H or alkyl of C_1 - C_8), amine (NR_2 ; R = H or alkyl C_1 - C_8), nitro, nitroso, cyano, halogen, substituted aryl, unsubstituted aryl, substituted heteroaryl, unsubstituted heteroaryl, amide, or wherein

R^1 and R^2 or R^2 and R^3 or R^3 and R^4 together form a carbocyclic ring, substituted or unsubstituted and fused carbocyclic ring, substituted or unsubstituted benzannulated carbocyclic and substituted or unsubstituted arylannulated carbocyclic; and R^5 , R^6 , R^7 and R^8 = H, alkyl (C_1 - C_8), alkoxy (C_1 - C_8), acyl ($-C(O)R$; R = alkyl C_1 - C_8), acetoxy ($-OC(O)R$; R = alkyl C_1 - C_8), carboxylic acid and esters ($-CO_2R$ = H or alkyl of C_1 - C_8), amine (NR_2 ; R = H or alkyl C_1 - C_8), nitro, nitroso, cyano, halogen (Cl, Br, I or F), substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, amide ($-C(O)NR_2$ R = H or alkyl C_1 - C_8), substituted or unsubstituted heterocyclic, substituted or unsubstituted benzannulatedheterocyclic and substituted or unsubstituted arylannulated heterocyclic; or

R^5 and R^6 or R^6 and R^7 or R^7 and R^8 together form a carbocyclic ring, substituted or unsubstituted benzannulated carbocyclic and substituted or unsubstituted arylannulated carbocyclic.

4. The compound of claim 3, wherein the compound has the formula:

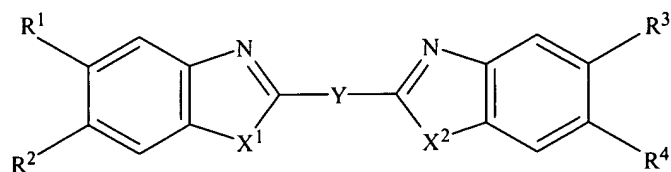


wherein X^1 and X^2 are independently O, N or S; and
 Z^1 is OH, SH, a primary amine, or a secondary amine.

5. The compound of claim 3, further defined as 1,4-Bis(9,9-dipropyl - 9H-fluoreno[3,2-d]oxazol-2-yl)-2-hydroxyphenyl.

6. The compound of claim 3, further defined as 2,7-Bis(5-methylbenzoxazol-2-yl)-9,9-dipropyl-3-hydroxyfluorene.

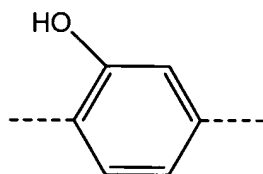
7. The compound of claim 1, wherein the compound is of the formula:



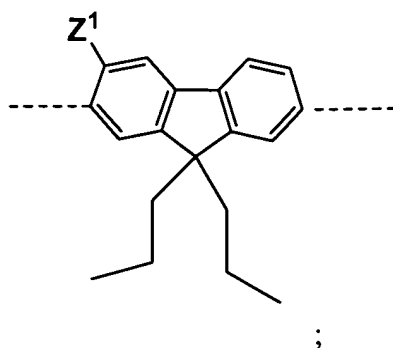
wherein:

X^1 and X^2 are independently selected from N, S or O;

Y is

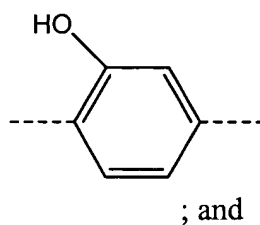


or



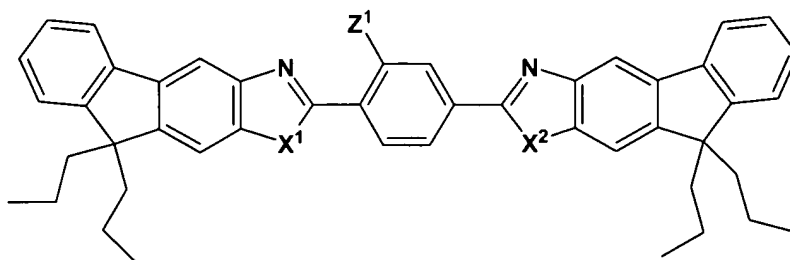
R^1 , R^2 , R^3 and R^4 are independently a substituted or unsubstituted, straight or branched C1-C22 alkyl, C1-C22 alkene, C1-C22 alkynyl, or

wherein R^1 and R^2 together or R^3 and R^4 form an aromatic or nonaromatic 1 to 3 ring cyclic structure; and



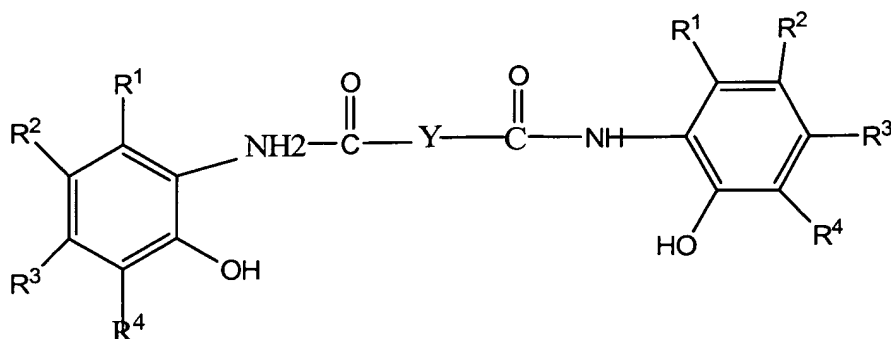
at least one of the pairs R^1 and R^2 or R^3 and R^4 form an aromatic or nonaromatic 1 to 3 ring cyclic moiety.

8. The compound of claim 6, wherein the compound has the formula:

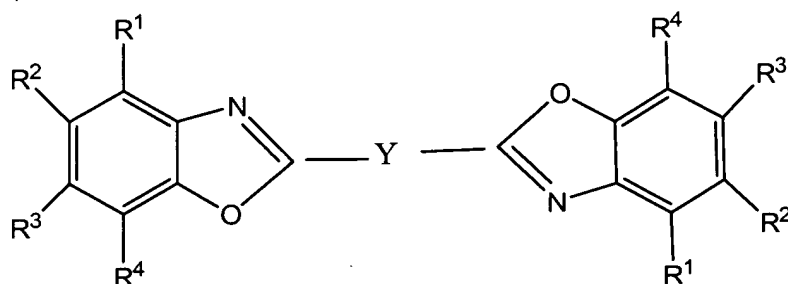


wherein X^1 and X^2 are independently O, N or S; and Z^1 is OH, SH, a primary amine, or a secondary amine.

9. The compound of claim 8, wherein Z^1 is OH, SH or NH_2 .
10. The compound of claim 6, further defined as 1,4-Bis(9,9-dipropyl - 9H-fluoreno[3,2-d]oxazol-2-yl)-2-hydroxyphenyl.
11. The compound of claim 6, further defined as 2,7-Bis(5-methylbenzoxazol-2-yl)-9,9-dipropyl-3-hydroxyfluorene.
12. A polymer blend comprising a polymeric material and the compound of claim 1.
13. The polymer blend of claim 12, wherein said polymeric compound is polycarbonate.
14. The polymer blend of claim 12, wherein the polymeric material is CR39.
15. A method for manufacturing an optical lens comprising molding a polymer blend of claim 12 into a desired shape to produce an optical lens.
16. The method of claim 15, wherein said molding step is injection molding.
17. A method comprising the steps of preparing an intermediate compound of Formula 6



and reacting the formula under suitable conditions and with suitable reagents to form a compound of the formula



Formula 7

wherein

Y is an aromatic or nonaromatic cyclic structure optionally substituted at least once with OH, SH, H, C₁₋₂₂ alkyl, C₂₋₂₂ alkene, C₂₋₂₂ alkyne, primary, secondary or tertiary amine, amino, nitro, nitroso, halogen; and

R¹, R², R³ and R⁴ are independently selected from H, alkyl (C₁-C₈), alkoxy (C₁-C₈), acyl (-C(O)R; R = alkyl C₁-C₈), acetoxy (-OC(O)R; R = alkyl C₁-C₈), carboxylic acid and esters (-CO₂R = H or alkyl of C₁-C₈), amine (NR₂; R = H or alkyl C₁-C₈), nitro, nitroso, cyano, halogen (Cl, Br, I or F), substituted or unsubstituted aryl,

substituted or unsubstituted heteroaryl, amide ($-\text{C}(\text{O})\text{NR}_2$ $\text{R} = \text{H}$ or alkyl $\text{C}_1\text{-C}_8$), or wherein

R^1 and R^2 or R^2 and R^3 or R^3 and R^4 together form a carbocyclic ring, substituted or unsubstituted and fused carbocyclic ring, substituted or unsubstituted benzannulated carbocyclic and substituted or unsubstituted arylannulated carbocyclic; and R^5 , R^6 , R^7 and $\text{R}^8 = \text{H}$, alkyl ($\text{C}_1\text{-C}_8$), alkoxy ($\text{C}_1\text{-C}_8$), acyl ($-\text{C}(\text{O})\text{R}$; $\text{R} =$ alkyl $\text{C}_1\text{-C}_8$), acetoxy ($-\text{OC}(\text{O})\text{R}$; $\text{R} =$ alkyl $\text{C}_1\text{-C}_8$), carboxylic acid and esters ($-\text{CO}_2\text{R}$ $\text{R} = \text{H}$ or alkyl of $\text{C}_1\text{-C}_8$), amine (NR_2 ; $\text{R} = \text{H}$ or alkyl $\text{C}_1\text{-C}_8$), nitro, nitroso, cyano, halogen (Cl , Br , I or F), substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, amide ($-\text{C}(\text{O})\text{NR}_2$ $\text{R} = \text{H}$ or alkyl $\text{C}_1\text{-C}_8$), substituted or unsubstituted heterocyclic, substituted or unsubstituted benzannulated heterocyclic and substituted or unsubstituted arylannulated heterocyclic.